

Title (en)  
RESIN COMPOSITION FOR IMPRINTING

Title (de)  
HARZZUSAMMENSETZUNG ZUM PRÄGEN

Title (fr)  
COMPOSITION DE RÉSINE POUR PRISE D'EMPREINTE

Publication  
**EP 4006106 A1 20220601 (EN)**

Application  
**EP 20844329 A 20200713**

Priority  
• JP 2020027278 W 20200713  
• JP 2019136038 A 20190724

Abstract (en)  
Provided is a resin composition for imprinting excellent in imprint properties and optical properties such as high refractive index and low haze. The invention relates to a resin composition for imprinting containing: (A) a polysiloxane resin represented by the following formula (1):  $(R^{1}_{SiO_{3/2}})_a(R^{2}_{SiO_{2/2}})_b(R^{3}_{SiO_{1/2}})_c(SiO_{4/2})_d$  wherein  $R^1$ ,  $R^2$ , and  $R^3$  are each independently a hydrogen atom, a hydroxy group, an alkoxy group, a C1-C12 hydrocarbon group, or a C1-C12 substituent having one or more crosslinkable functional groups, with at least one of  $R^1$ ,  $R^2$ , or  $R^3$  being a C1-C12 substituent having one or more crosslinkable functional groups, and when a plurality of  $R^1$ s,  $R^2$ s, or  $R^3$ s are present, they may be different from one another; and a, b, c, and d are numbers satisfying the following conditions:  $0.001 \leq a \leq 1.00$ ,  $0 \leq b \leq 0.999$ ,  $0 \leq c \leq 0.30$ ,  $0 \leq d \leq 0.30$ , and  $a + b + c + d = 1.0$ ; and (B) a fine particulate inorganic oxide, wherein the ratio by weight of the sum of the polysiloxane resin (A) and optionally an alkoxy silane compound and a curable resin to the fine particulate inorganic oxide (B) is 0.2 to 2.5.

IPC 8 full level  
**C08L 83/04** (2006.01); **C08K 3/20** (2006.01); **H01L 21/027** (2006.01)

CPC (source: CN EP KR US)  
**C08K 3/22** (2013.01 - CN EP KR US); **C08K 5/103** (2013.01 - CN); **C08K 5/5419** (2013.01 - CN US); **C08K 13/02** (2013.01 - CN); **C08L 83/04** (2013.01 - CN KR US); **C08L 101/00** (2013.01 - KR); **C09D 183/04** (2013.01 - US); **C09D 183/06** (2013.01 - EP); **G03F 7/0002** (2013.01 - CN EP); **G03F 7/0005** (2013.01 - EP); **G03F 7/0047** (2013.01 - EP); **G03F 7/027** (2013.01 - EP); **G03F 7/032** (2013.01 - EP); **G03F 7/0755** (2013.01 - EP); **G03F 7/0757** (2013.01 - EP); **H01L 21/027** (2013.01 - KR); **B29C 59/022** (2013.01 - US); **B29K 2083/00** (2013.01 - US); **B29K 2105/162** (2013.01 - US); **B29K 2509/02** (2013.01 - US); **B29K 2995/0088** (2013.01 - US); **C08G 77/20** (2013.01 - EP); **C08G 77/80** (2013.01 - EP); **C08K 2003/2237** (2013.01 - US); **C08K 2003/2241** (2013.01 - CN EP KR); **C08K 2003/2244** (2013.01 - CN EP KR US); **C08K 2201/005** (2013.01 - EP); **C08K 2201/011** (2013.01 - EP)

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CN  
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2. **C08K 5/5419 + C08L 83/04**  
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4. **C08K 13/02 + C08L 83/04**  
5. **C08L 83/04 + C08L 63/00 + C08K 3/22 + C08K 5/5419**  
EP  
1. **C08K 3/22 + C08L 83/04**  
2. **C09D 183/06 + C08K 3/22**  
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